

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD041720\
 Data File : VD065659.D
 Acq On : 17 Apr 2020 22:10
 Operator : VA/SY
 Sample : L2323-08
 Misc : 7.36G/5.00ml/MSVOA D/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TP-19

Quant Time: Apr 20 07:04:51 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D041520S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 15 19:43:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	240080	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	390650	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	378910	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	192385	50.00	ug/l	0.00

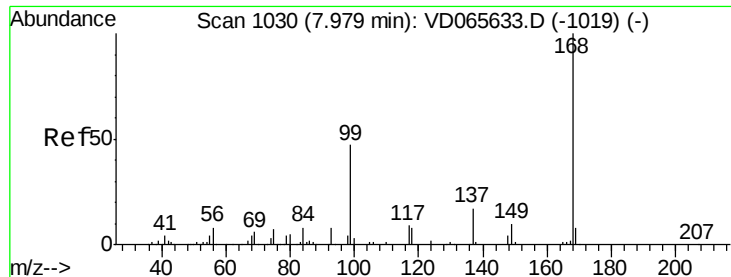
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.34	65	124347	60.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	121.78%	
35) Dibromofluoromethane	7.92	113	128380	52.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.60%	
50) Toluene-d8	10.34	98	487424	54.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.76%	
62) 4-Bromofluorobenzene	12.64	95	159873	53.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.22%	

Target Compounds

						Qvalue
10) Methyl Iodide	4.29	142	427	7.486	ug/l #	38
14) Allyl chloride	4.69	41	59	3.977	ug/l #	19
16) Acetone	4.16	43	20840	71.350	ug/l	97
17) Carbon Disulfide	4.40	76	8019	7.170	ug/l	99
18) Methyl Acetate	4.74	43	1748	7.748	ug/l #	61
20) Methylene Chloride	4.96	84	9206	3.396	ug/l	88
25) 2-Butanone	7.22	43	5248	9.630	ug/l #	87
31) Cyclohexane	7.98	56	10102	2.626	ug/l #	46
36) 1,1-Dichloropropene	7.98	75	17342	4.597	ug/l #	49
37) Ethyl Acetate	7.22	43	5248	3.489	ug/l #	69
38) Carbon Tetrachloride	7.98	117	22303	5.520	ug/l #	17
39) Methylcyclohexane	9.36	83	17804	4.056	ug/l	96
48) Methyl methacrylate	9.54	41	856	2.289	ug/l #	52
51) 4-Methyl-2-Pentanone	10.34	43	4207	12.351	ug/l #	14
55) 1,1,2-Trichloroethane	10.77	97	6683	3.433	ug/l #	20
56) Ethyl methacrylate	10.68	69	3136	4.678	ug/l #	1
59) 2-Hexanone	10.95	43	5478	15.013	ug/l #	27
69) o-Xylene	12.18	106	8792	2.023	ug/l	96
74) N-amyl acetate	12.27	43	2187	3.569	ug/l #	56
76) 1,2,3-Trichloropropane	12.64	75	80426	51.994	ug/l #	100
77) Bromobenzene	12.64	156	18195	5.905	ug/l #	1
80) 1,3,5-Trimethylbenzene	12.97	105	15659	1.599	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.64	75	80426	113.951	ug/l #	11
95) Naphthalene	15.41	128	10828	5.735	ug/l #	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.01 min

Lab File: VD065659.D

Acq: 17 Apr 2020 22:10

Instrument :

MSVOA_D

ClientSampleId :

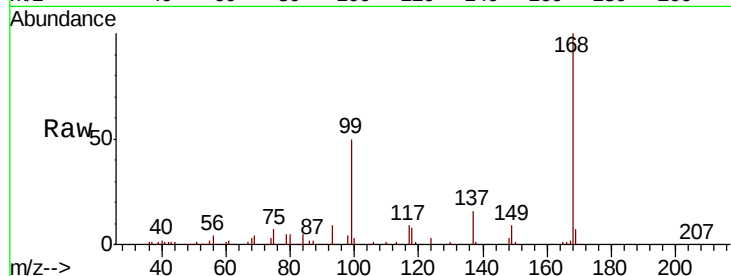
TP-19

Tot Ion:168 Resp: 240080

Ion Ratio Lower Upper

168 100

99 50.2 40.3 60.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): V

7.98

120000

100000

80000

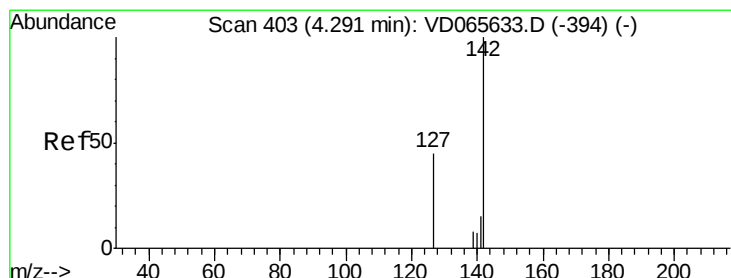
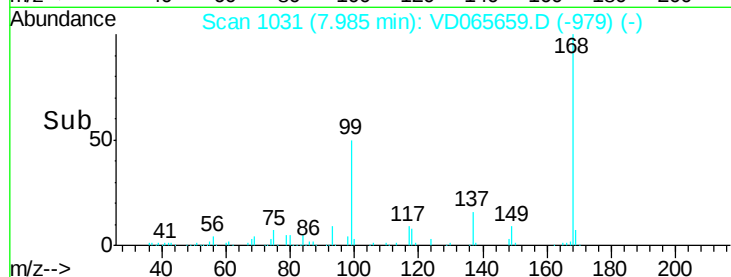
60000

40000

20000

0

Time-->



#10

Methyl Iodide

Concen: 7.486 ug/l

RT: 4.29 min Scan# 403

Delta R.T. -0.01 min

Lab File: VD065659.D

Acq: 17 Apr 2020 22:10

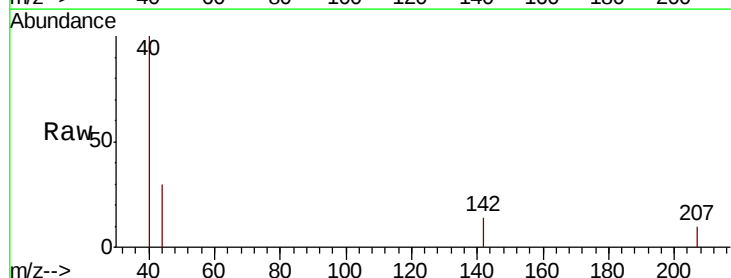
Tgt Ion:142 Resp: 427

Ion Ratio Lower Upper

142 100

127 0.0 38.1 57.1#

141 0.0 12.1 18.1#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

4.29

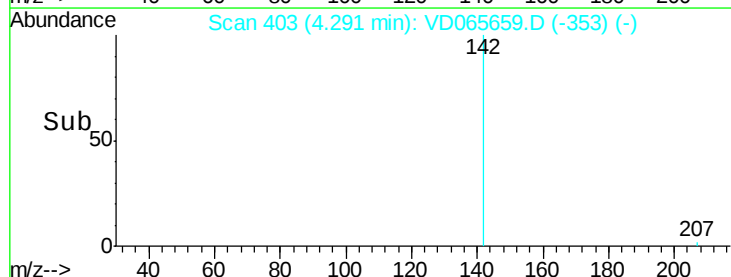
300

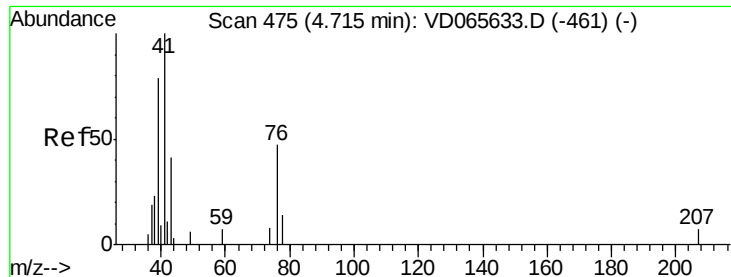
200

100

0

Time-->





#14

Allvl chloride

Concen: 3.977 ug/l

RT: 4.69 min Scan# 471

Delta R.T. -0.02 min

Lab File: VD065659.D

Acq: 17 Apr 2020 22:10

Instrument :

MSVOA_D

ClientSampleId :

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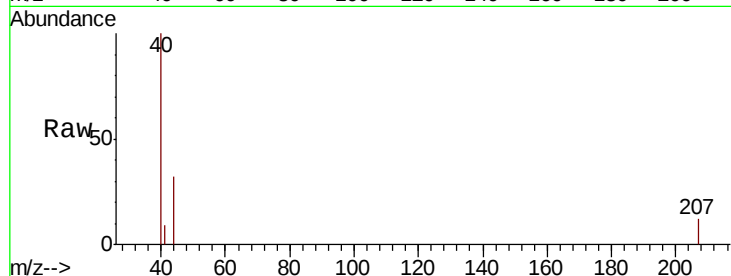
Tot Ion: 41 Resp: 59

Ion Ratio Lower Upper

41 100

39 0.0 62.5 93.7#

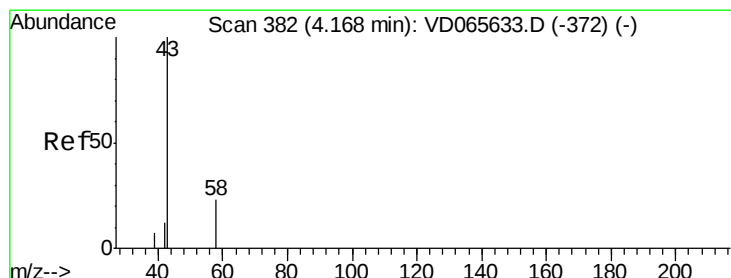
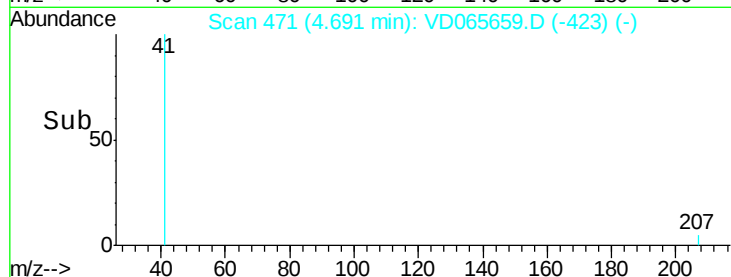
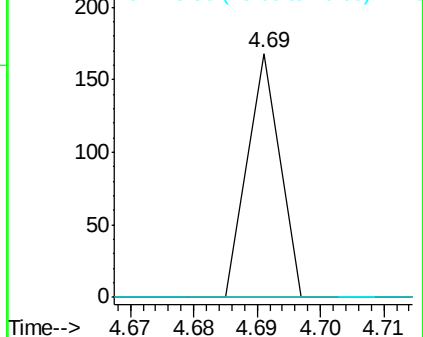
76 0.0 29.1 43.7#



Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 75.90 (75.60 to 76.60): VDC



#16

Acetone

Concen: 71.350 ug/l

RT: 4.16 min Scan# 381

Delta R.T. -0.00 min

Lab File: VD065659.D

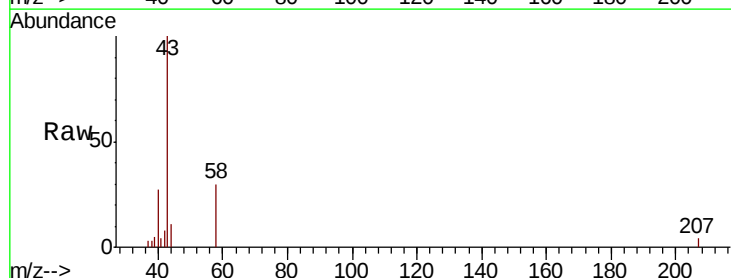
Acq: 17 Apr 2020 22:10

Tgt Ion: 43 Resp: 20840

Ion Ratio Lower Upper

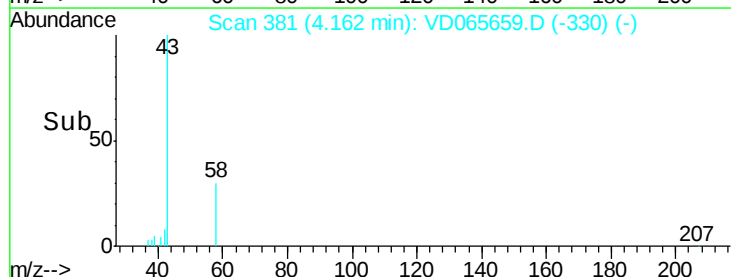
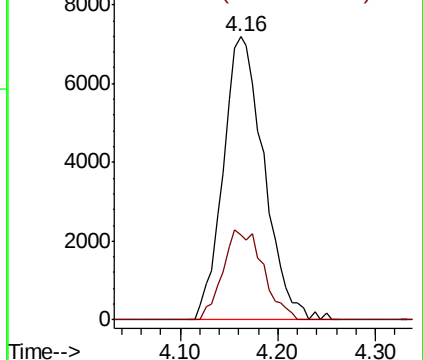
43 100

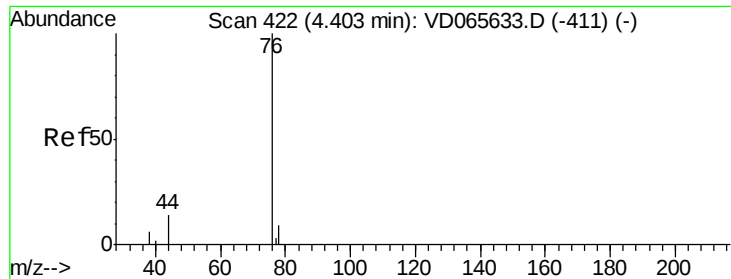
58 30.0 22.9 34.3



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

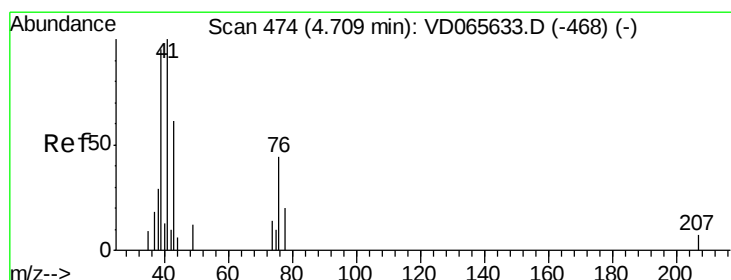
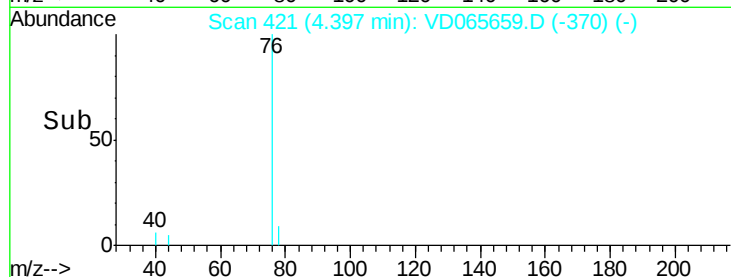
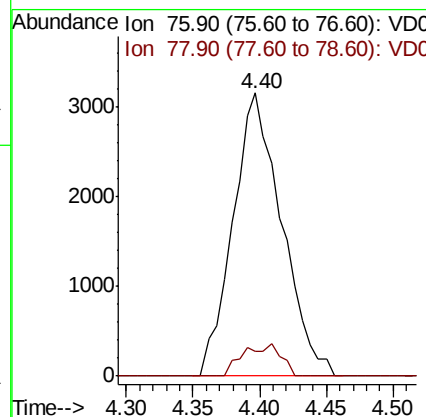
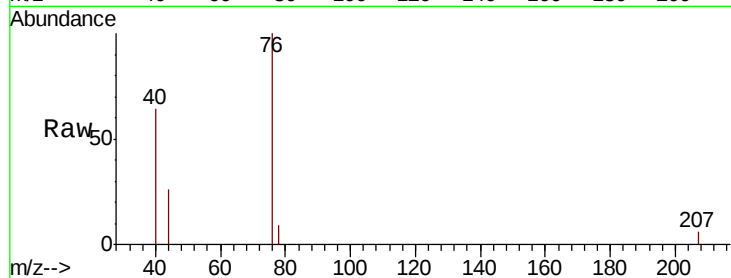




#17
Carbon Disulfide
Concen: 7.170 ug/l
RT: 4.40 min Scan# 421
Delta R.T. -0.00 min
Lab File: VD065659.D
Acq: 17 Apr 2020 22:10

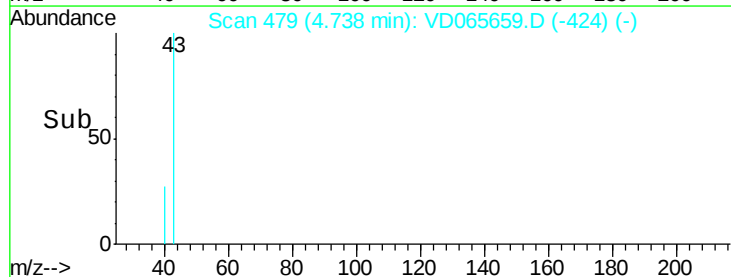
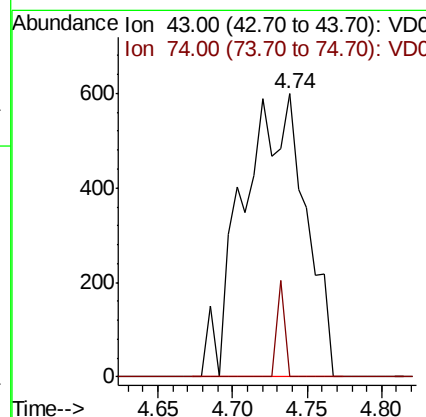
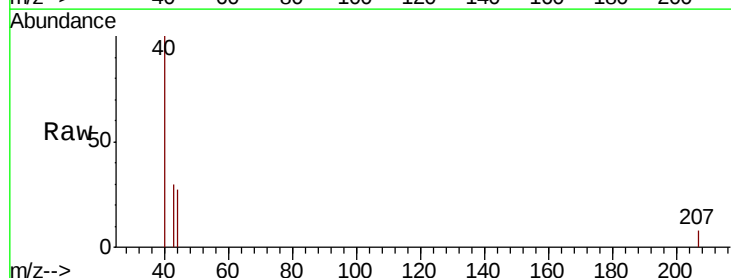
Instrument :
MSVOA_D
ClientSampled :
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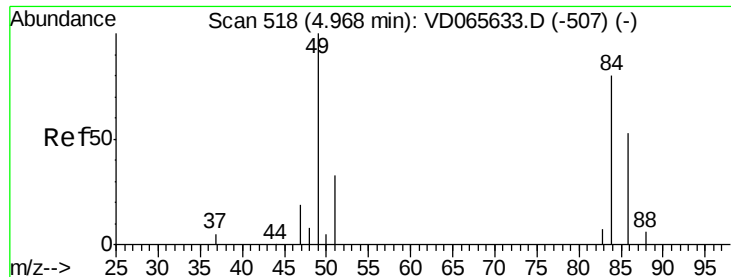
Tot Ion: 76 Resp: 8019
Ion Ratio Lower Upper
76 100
78 8.9 7.3 10.9



#18
Methyl Acetate
Concen: 7.748 ug/l
RT: 4.74 min Scan# 479
Delta R.T. 0.02 min
Lab File: VD065659.D
Acq: 17 Apr 2020 22:10

Tgt Ion: 43 Resp: 1748
Ion Ratio Lower Upper
43 100
74 4.1 18.6 28.0#

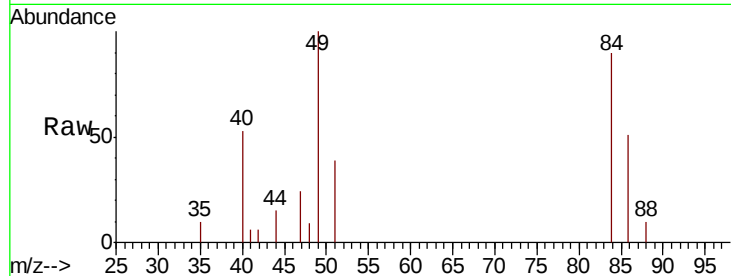




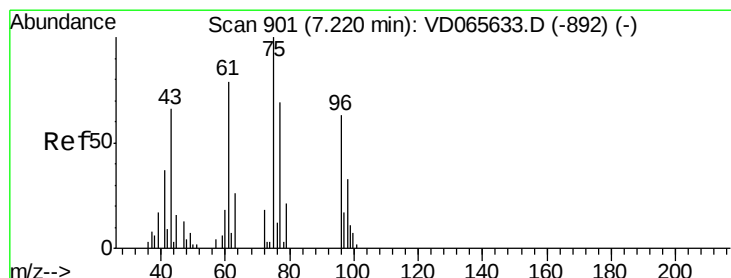
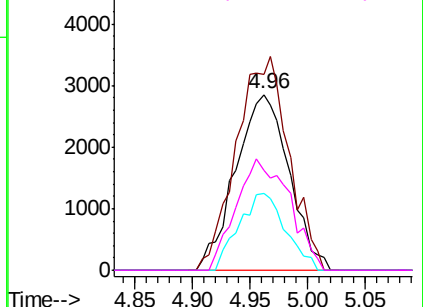
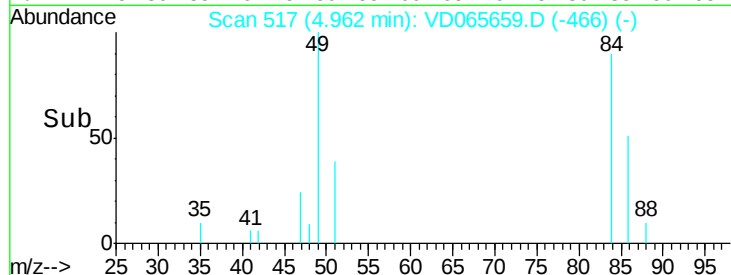
#20
Methvlene Chloride
Concen: 3.396 ug/l
RT: 4.96 min Scan# 517
Delta R.T. 0.00 min
Lab File: VD065659.D
Acq: 17 Apr 2020 22:10

Instrument :
MSVOA_D
ClientSampled :
TP-19

Tot Ion: 84 Resp: 9206
Ion Ratio Lower Upper
84 100
49 111.1 102.0 153.0
51 43.7 30.8 46.2
86 57.1 51.0 76.4

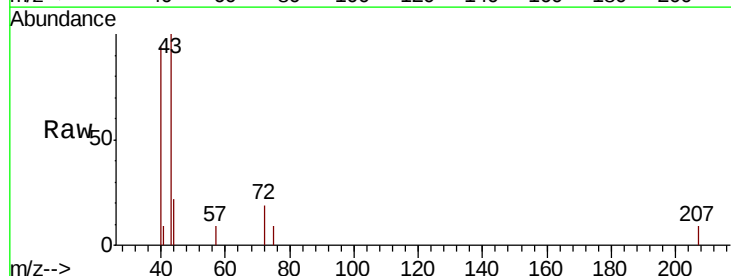


Abundance Ion 83.90 (83.60 to 84.60): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

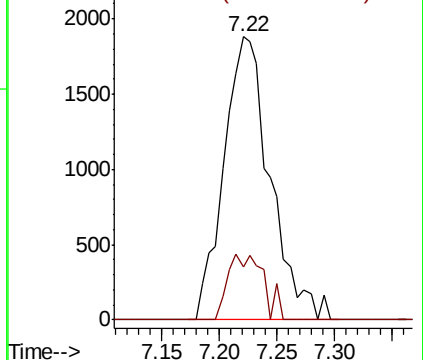
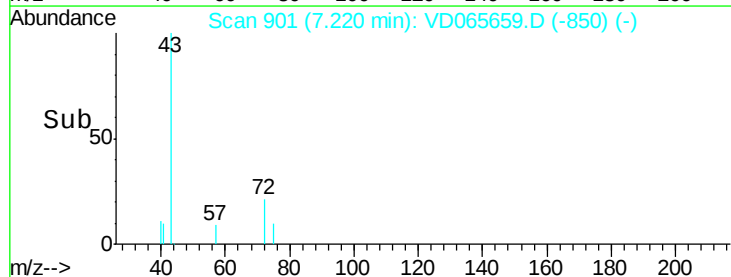


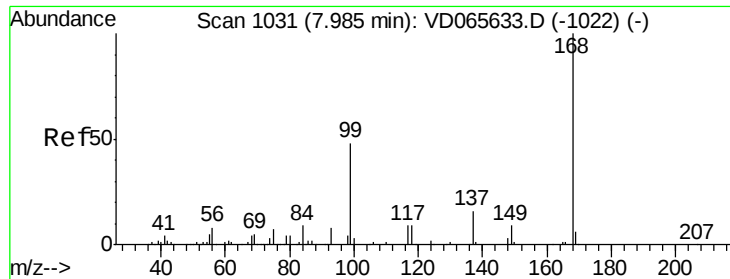
#25
2-Butanone
Concen: 9.630 ug/l
RT: 7.22 min Scan# 901
Delta R.T. 0.00 min
Lab File: VD065659.D
Acq: 17 Apr 2020 22:10

Tgt Ion: 43 Resp: 5248
Ion Ratio Lower Upper
43 100
72 18.8 20.5 30.7#



Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 72.00 (71.70 to 72.70): VDC

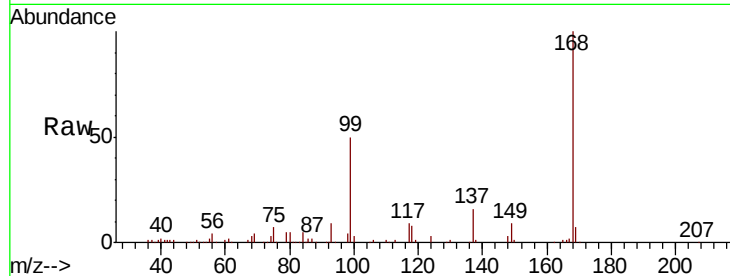




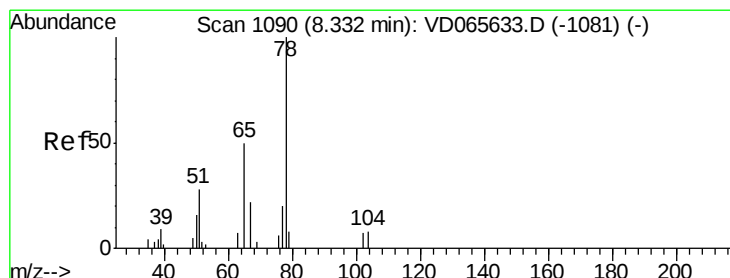
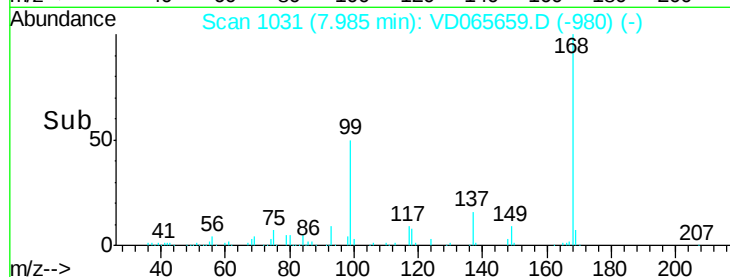
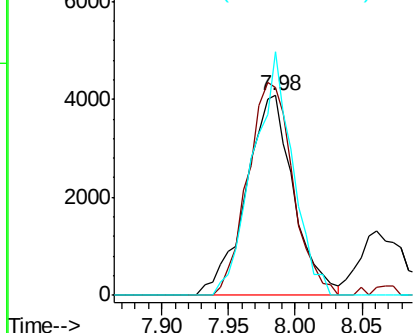
#31
Cyclohexane
Concen: 2.626 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.00 min
Lab File: VD065659.D
Acq: 17 Apr 2020 22:10

Instrument :
MSVOA_D
ClientSampleId :
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Tot Ion: 56 Resp: 10102
Ion Ratio Lower Upper
56 100
69 104.3 26.6 40.0#
84 121.9 75.3 112.9#

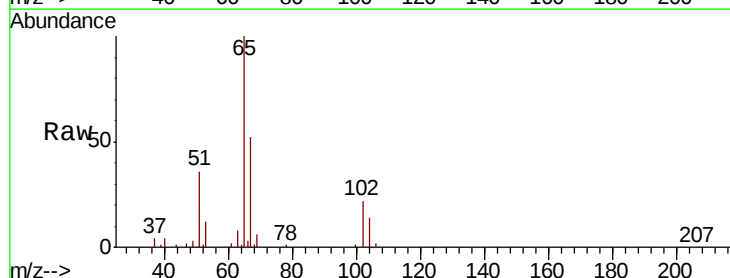


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

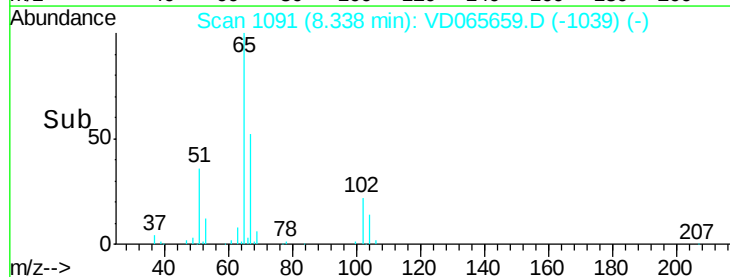
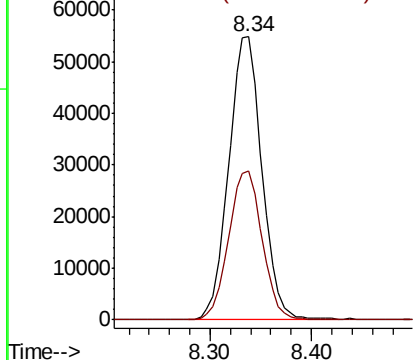


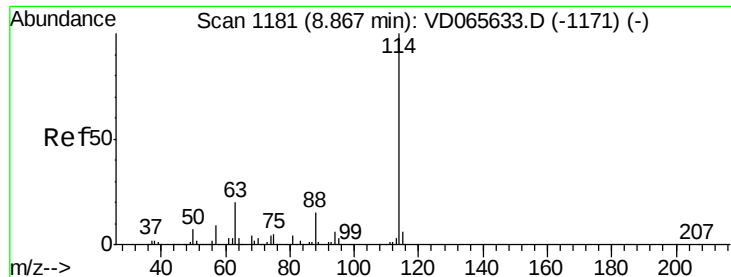
#33
1,2-Dichloroethane-d4
Concen: 60.885 ug/l
RT: 8.34 min Scan# 1091
Delta R.T. 0.01 min
Lab File: VD065659.D
Acq: 17 Apr 2020 22:10

Tgt Ion: 65 Resp: 124347
Ion Ratio Lower Upper
65 100
67 52.8 0.0 105.8



Abundance Ion 64.90 (64.60 to 65.60): VDC
Ion 66.90 (66.60 to 67.60): VDC

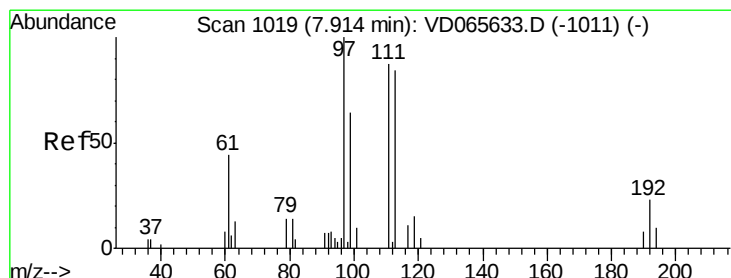
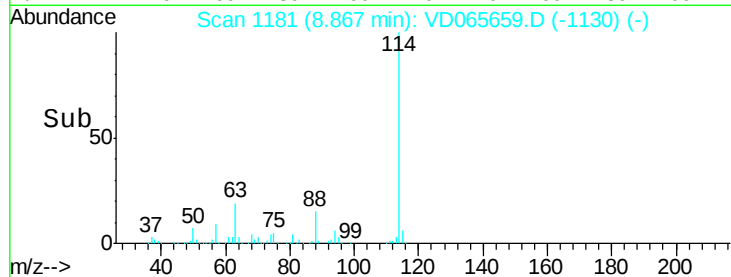
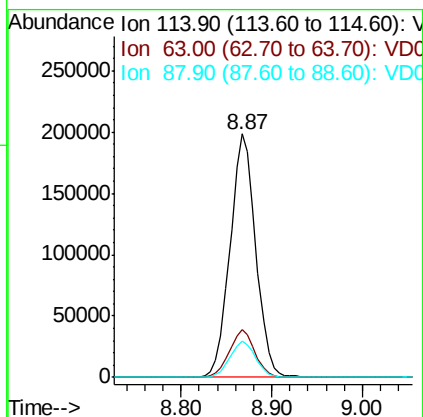
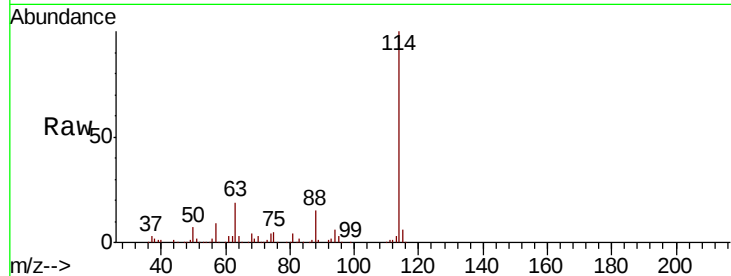




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. -0.00 min
 Lab File: VD065659.D
 Acq: 17 Apr 2020 22:10

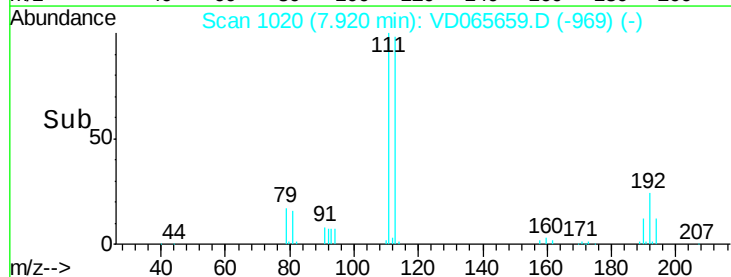
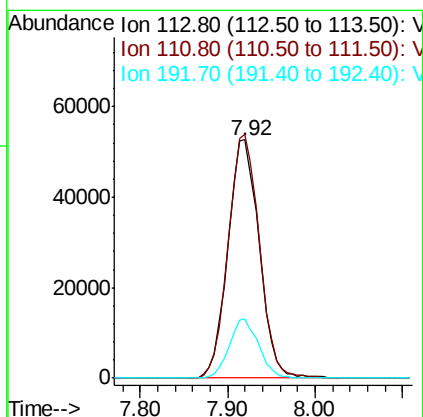
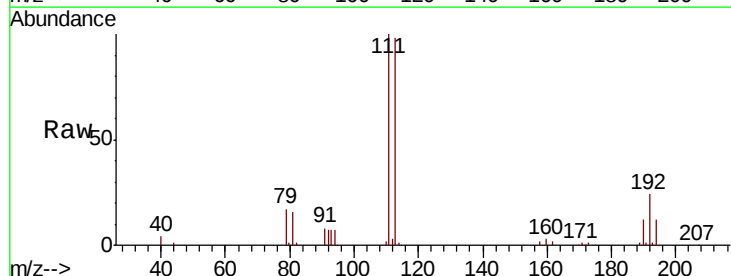
Instrument :
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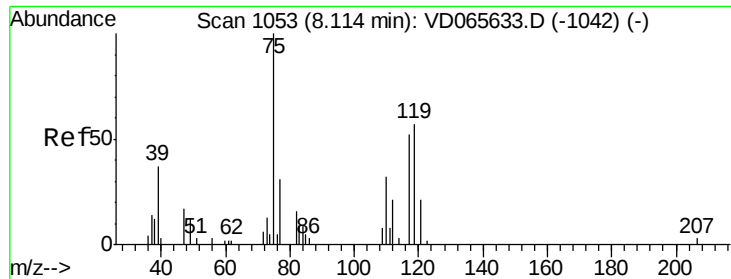
Tot Ion	Ratio	Lower	Upper
114	100		
63	19.4	0.0	40.8
88	14.9	0.0	31.6



#35
 Dibromofluoromethane
 Concen: 52.803 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. -0.00 min
 Lab File: VD065659.D
 Acq: 17 Apr 2020 22:10

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.4	81.9	122.9
192	23.4	18.9	28.3

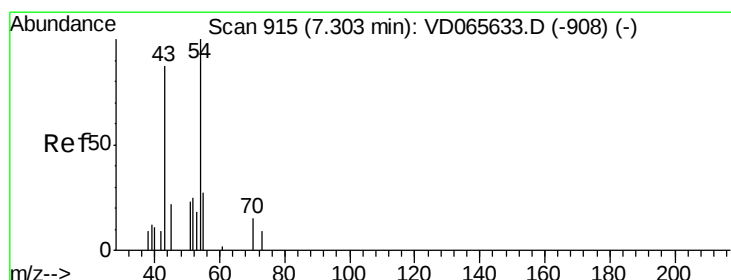
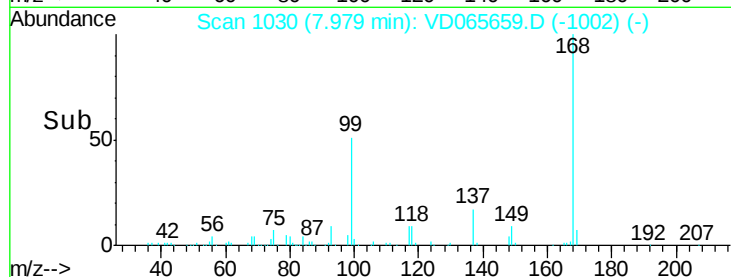
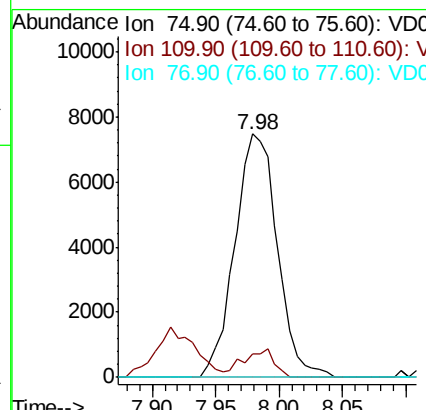
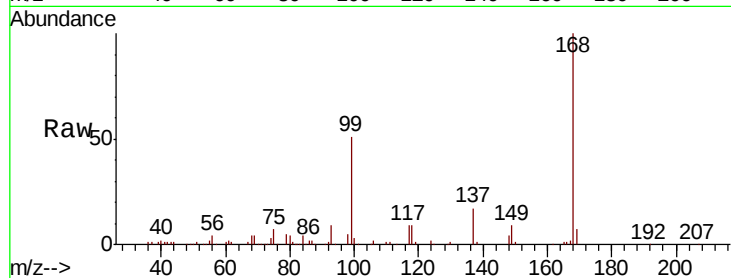




#36
 1,1-Dichloropropene
 Concen: 4.597 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.14 min
 Lab File: VD065659.D
 Acq: 17 Apr 2020 22:10

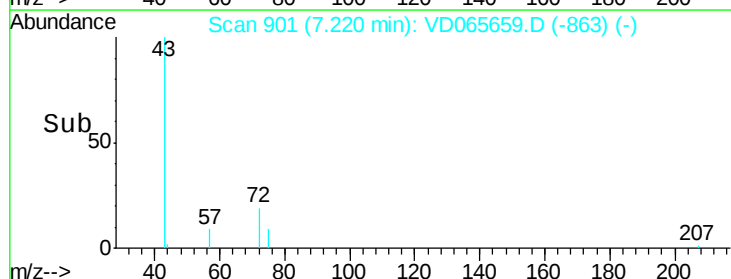
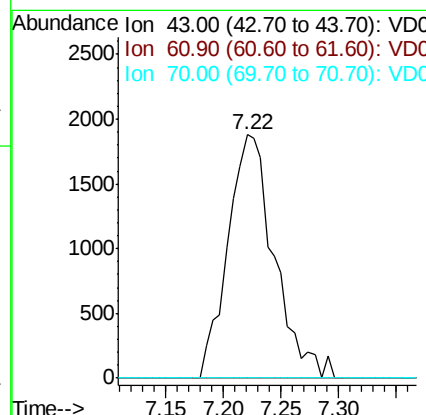
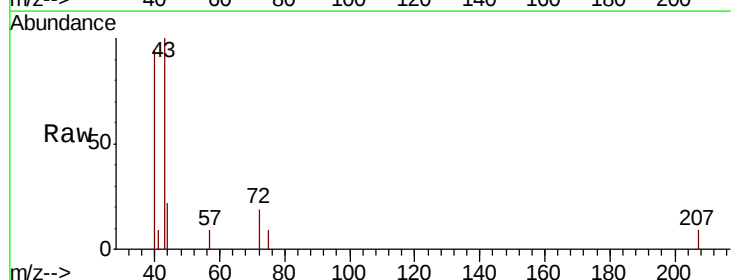
Instrument :
 MSVOA_D
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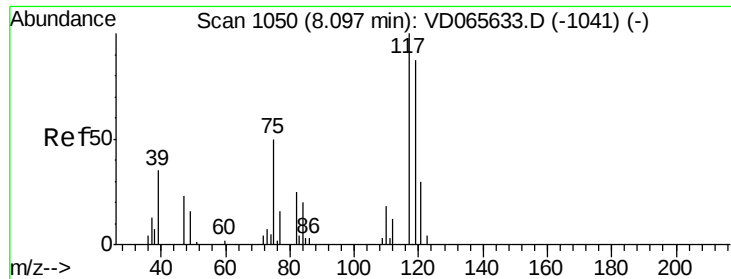
Tot Ion: 75 Resp: 17342
 Ion Ratio Lower Upper
 75 100
 110 8.4 18.3 54.8#
 77 0.0 24.6 37.0#



#37
 Ethyl Acetate
 Concen: 3.489 ug/l
 RT: 7.22 min Scan# 901
 Delta R.T. -0.08 min
 Lab File: VD065659.D
 Acq: 17 Apr 2020 22:10

Tgt Ion: 43 Resp: 5248
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.9 16.3#
 70 0.0 7.9 11.9#

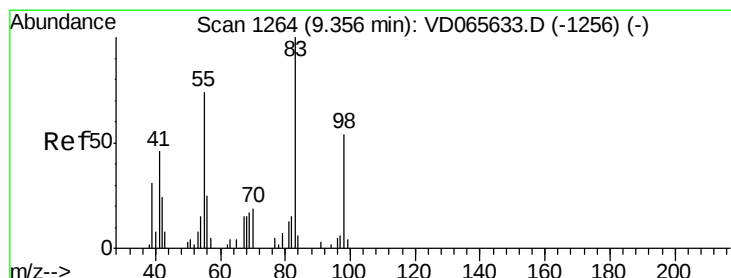
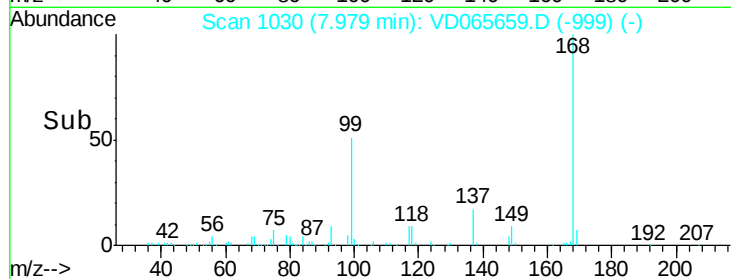
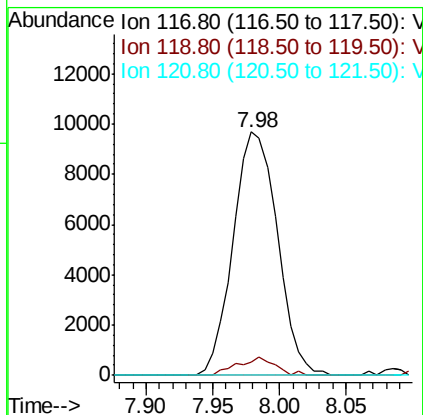
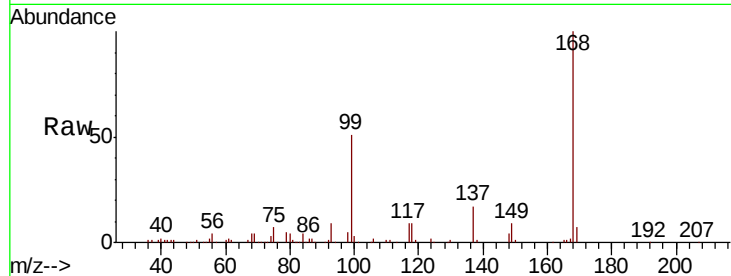




#38
Carbon Tetrachloride
Concen: 5.520 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.12 min
Lab File: VD065659.D
Acq: 17 Apr 2020 22:10

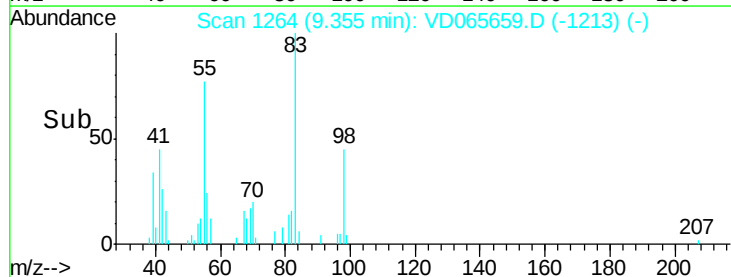
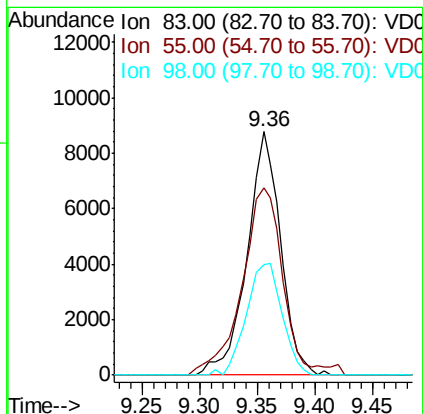
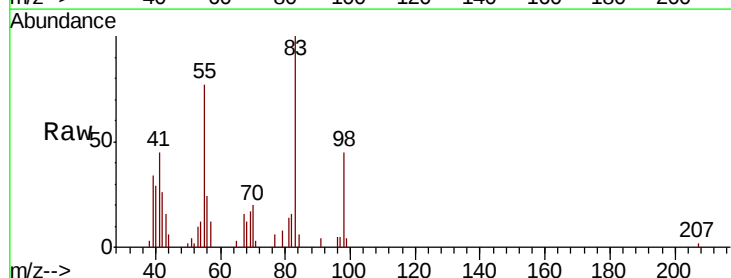
Instrument :
MSVOA_D
ClientSampleId :
TP-19

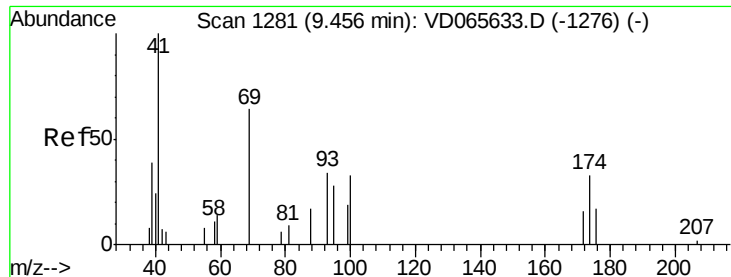
Tot Ion:117 Resp: 22303
Ion Ratio Lower Upper
117 100
119 5.4 75.3 112.9#
121 0.0 24.9 37.3#



#39
Methylcyclohexane
Concen: 4.056 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. -0.00 min
Lab File: VD065659.D
Acq: 17 Apr 2020 22:10

Tgt Ion: 83 Resp: 17804
Ion Ratio Lower Upper
83 100
55 76.9 62.3 93.5
98 45.3 40.5 60.7

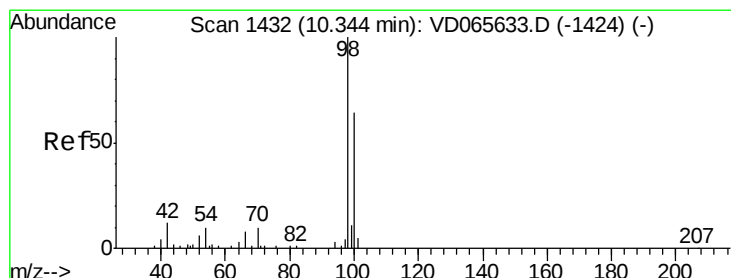
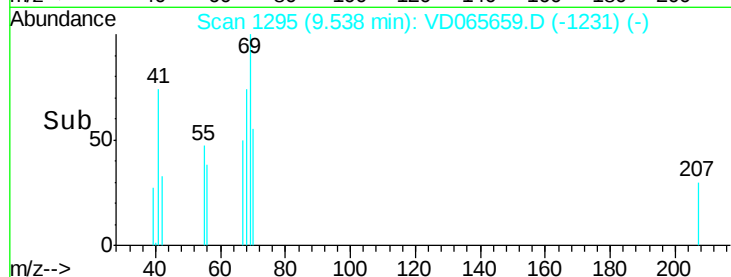
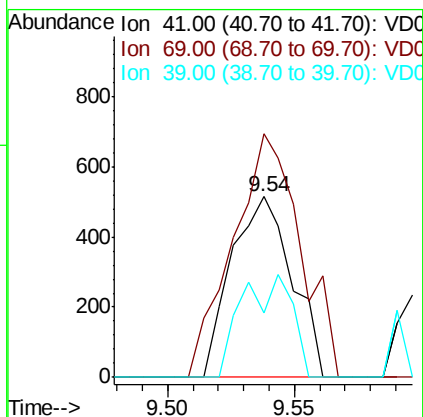
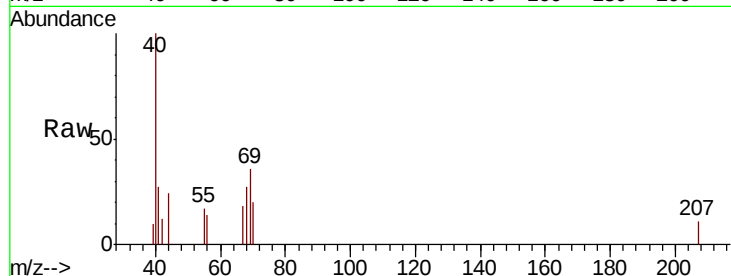




#48
Methvl methacrvlate
Concen: 2.289 ug/l
RT: 9.54 min Scan# 1295
Delta R.T. 0.08 min
Lab File: VD065659.D
Acq: 17 Apr 2020 22:10

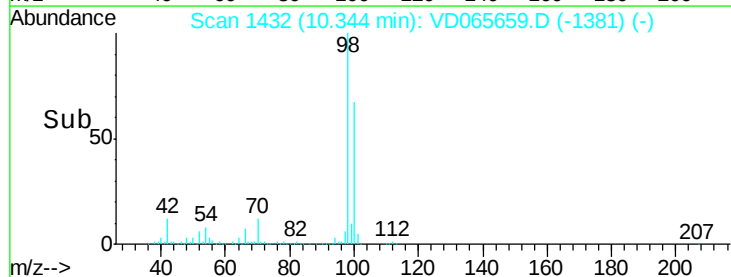
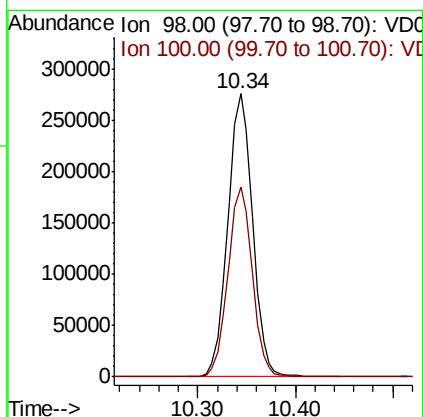
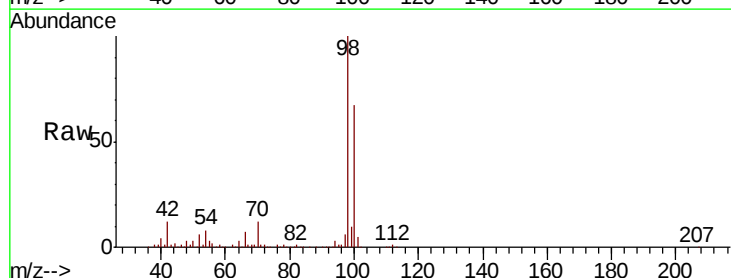
Instrument :
MSVOA_D
ClientSampleId :
TP-19

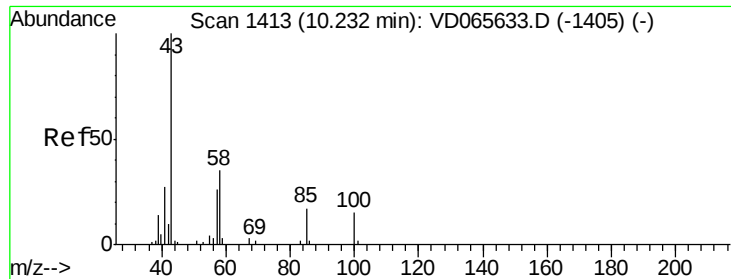
Tot Ion: 41 Resp: 856
Ion Ratio Lower Upper
41 100
69 149.9 66.8 100.2#
39 46.7 39.6 59.4



#50
Toluene-d8
Concen: 54.384 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. -0.00 min
Lab File: VD065659.D
Acq: 17 Apr 2020 22:10

Tgt Ion: 98 Resp: 487424
Ion Ratio Lower Upper
98 100
100 65.9 52.4 78.6





#51

4-Methyl-2-Pentanone

Concen: 12.351 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.11 min

Lab File: VD065659.D

Acq: 17 Apr 2020 22:10

Instrument :

MSVOA_D

ClientSampled :

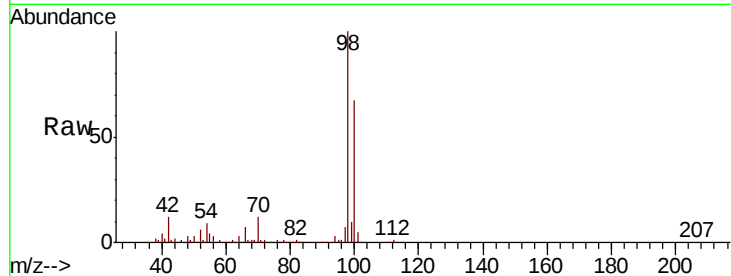
TP-19

Tot Ion: 43 Resp: 4207

Ion Ratio Lower Upper

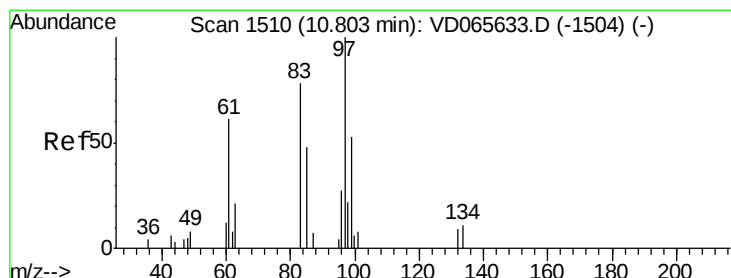
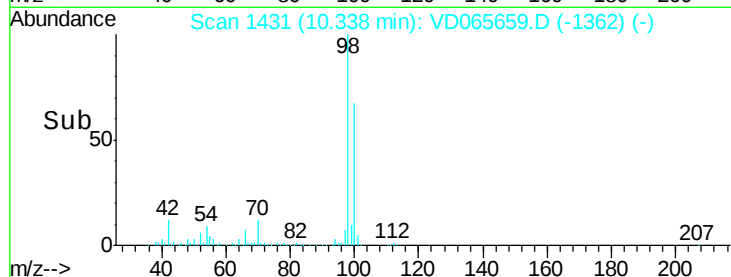
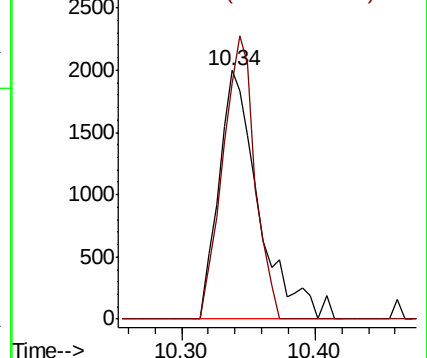
43 100

58 91.1 31.1 46.7#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#55

1,1,2-Trichloroethane

Concen: 3.433 ug/l

RT: 10.77 min Scan# 1505

Delta R.T. -0.03 min

Lab File: VD065659.D

Acq: 17 Apr 2020 22:10

Tgt Ion: 97 Resp: 6683

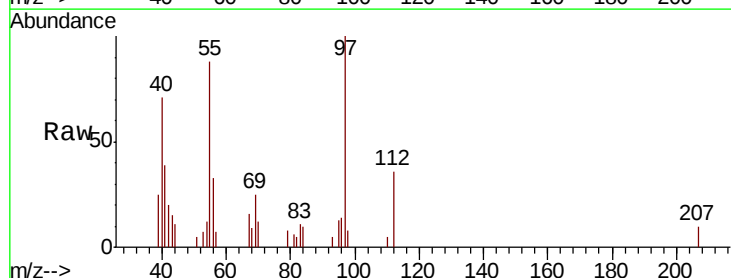
Ion Ratio Lower Upper

97 100

83 10.5 67.4 101.0#

85 0.0 43.4 65.0#

99 0.0 50.5 75.7#

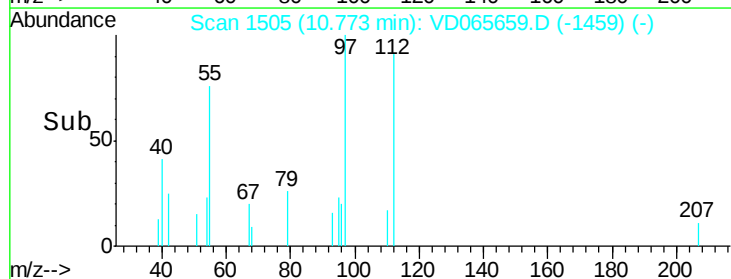
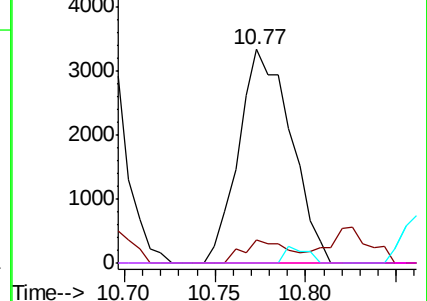


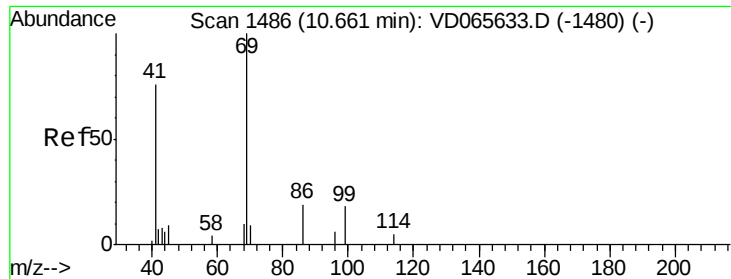
Abundance Ion 96.90 (96.60 to 97.60): VDC

Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC

Ion 98.90 (98.60 to 99.60): VDC

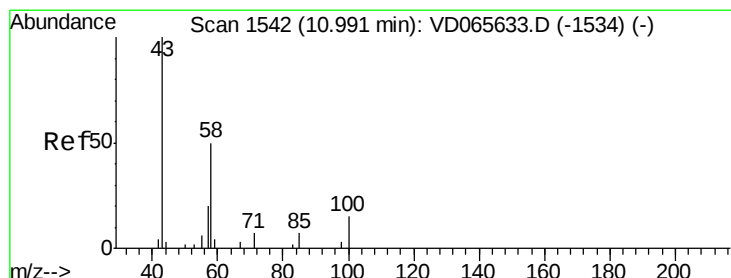
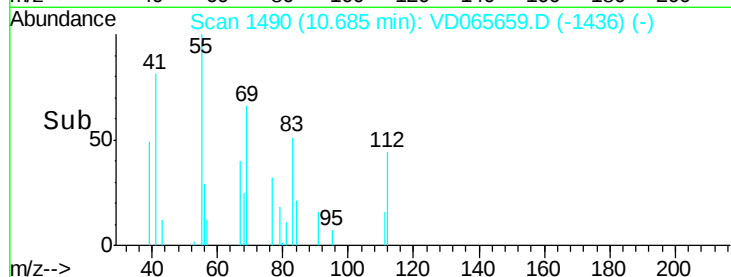
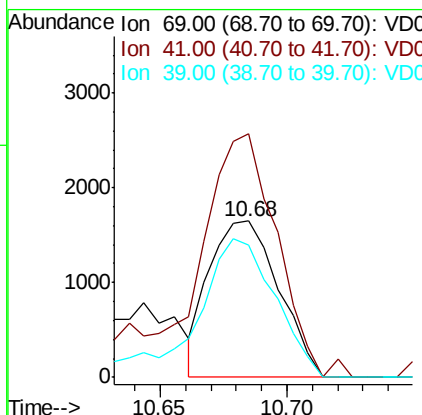
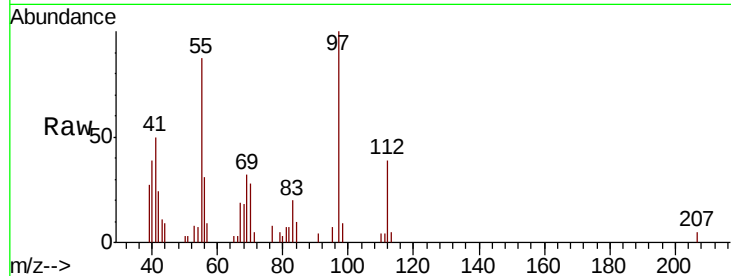




#56
Ethyl methacrylate
Concen: 4.678 ug/l
RT: 10.68 min Scan# 1490
Delta R.T. 0.02 min
Lab File: VD065659.D
Acq: 17 Apr 2020 22:10

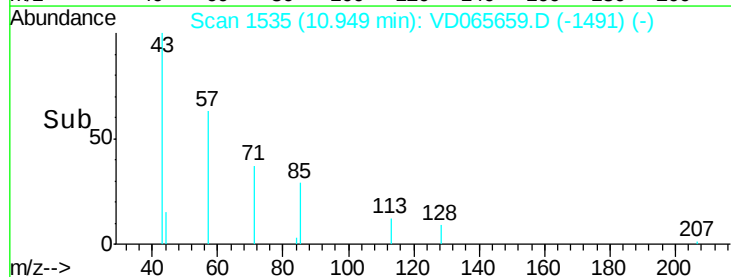
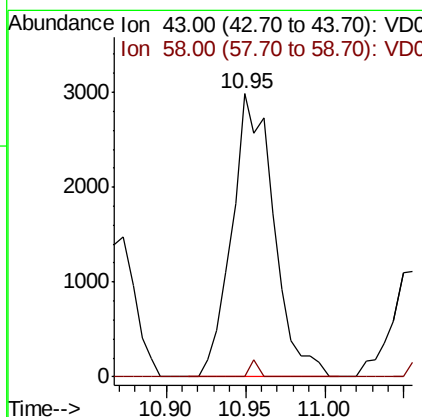
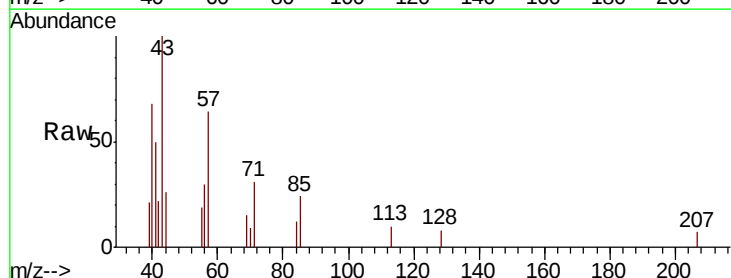
Instrument :
MSVOA_D
ClientSampleId :
TP-19

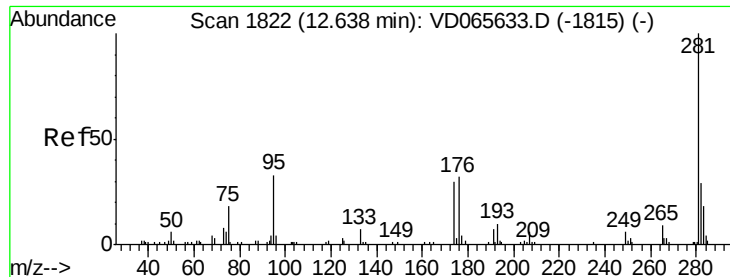
Tot Ion: 69 Resp: 3136
Ion Ratio Lower Upper
69 100
41 163.5 56.2 84.4#
39 98.8 26.6 39.8#



#59
2-Hexanone
Concen: 15.013 ug/l
RT: 10.95 min Scan# 1535
Delta R.T. -0.04 min
Lab File: VD065659.D
Acq: 17 Apr 2020 22:10

Tgt Ion: 43 Resp: 5478
Ion Ratio Lower Upper
43 100
58 1.2 26.5 79.4#





#62

4-Bromofluorobenzene

Concen: 53.608 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.00 min

Lab File: VD065659.D

Acq: 17 Apr 2020 22:10

Instrument :

MSVOA_D

ClientSampled :

TP-19

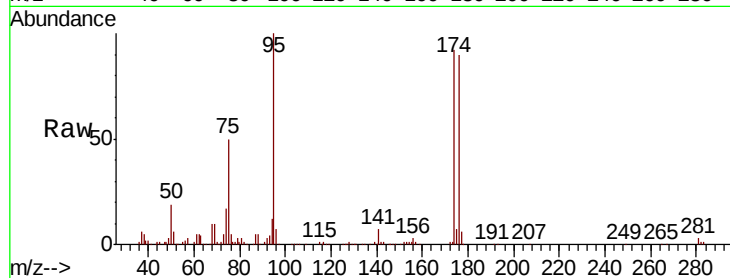
Tot Ion: 95 Resp: 159873

Ion Ratio Lower Upper

95 100

174 92.6 0.0 183.8

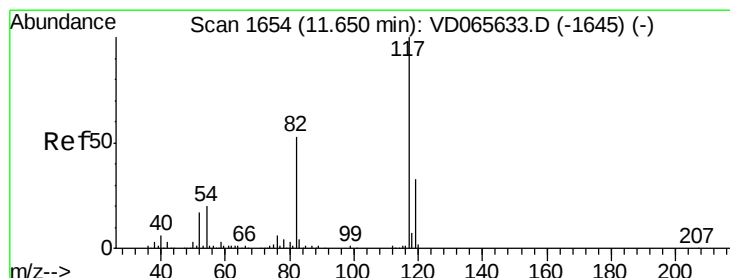
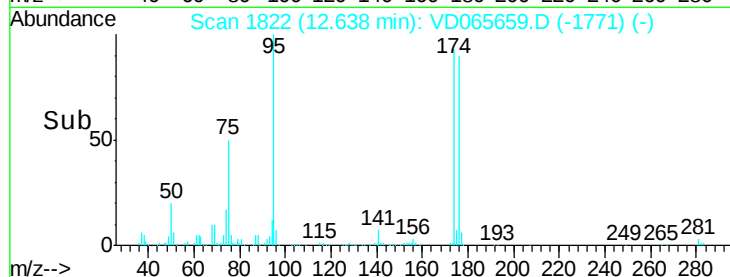
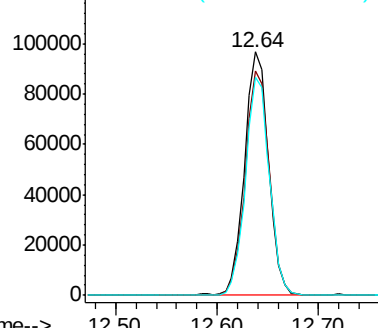
176 88.9 0.0 181.4



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.65 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VD065659.D

Acq: 17 Apr 2020 22:10

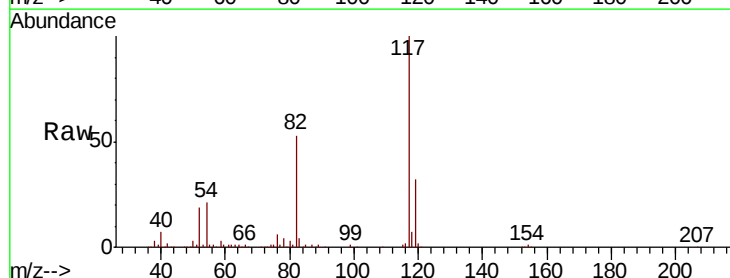
Tgt Ion: 117 Resp: 378910

Ion Ratio Lower Upper

117 100

82 53.2 43.2 64.8

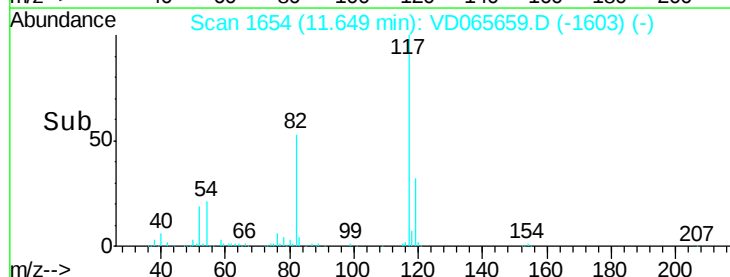
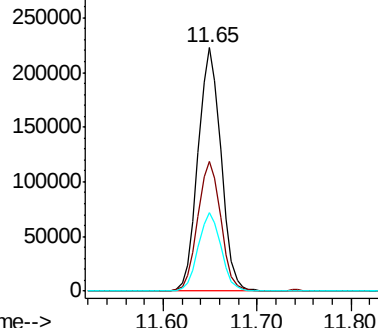
119 32.4 26.2 39.4

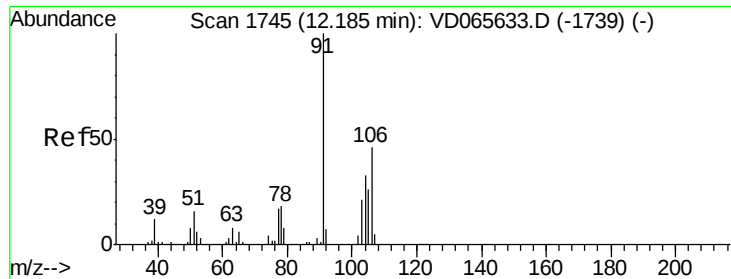


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V

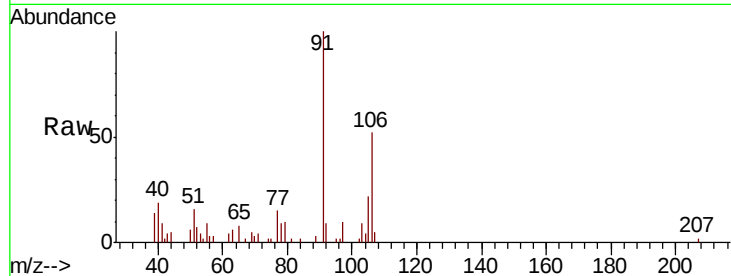




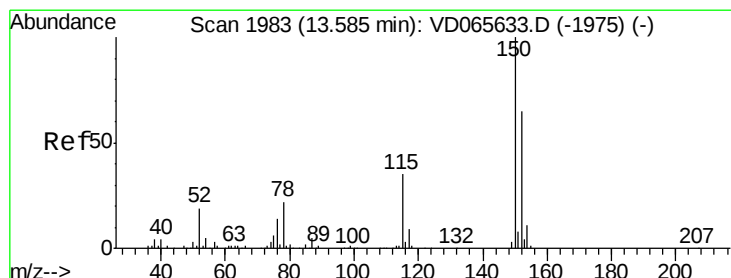
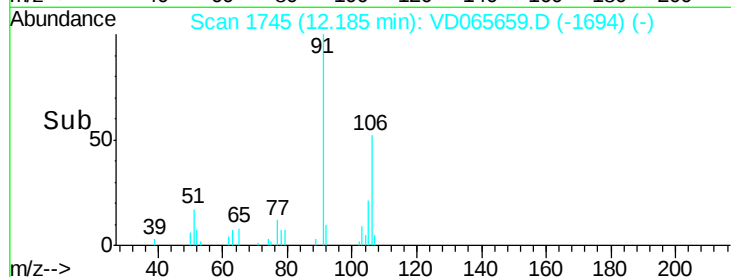
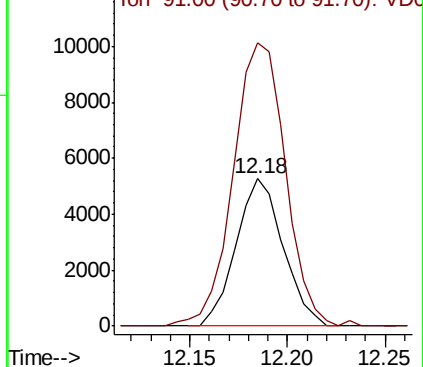
#69
o-Xylene
Concen: 2.023 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. -0.00 min
Lab File: VD065659.D
Acq: 17 Apr 2020 22:10

Instrument :
MSVOA_D
ClientSampleId :
TP-19

Tot Ion:106 Resp: 8792
Ion Ratio Lower Upper
106 100
91 213.9 103.6 310.9

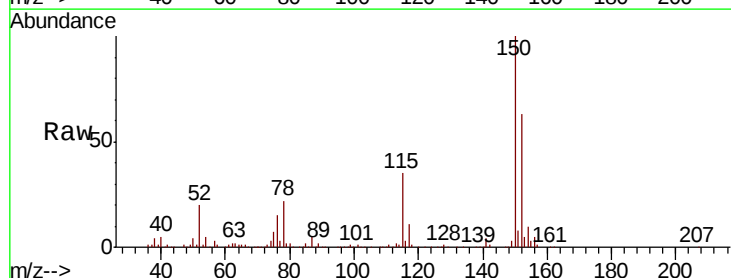


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): V

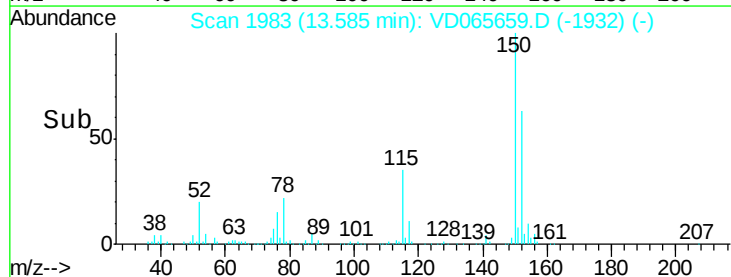
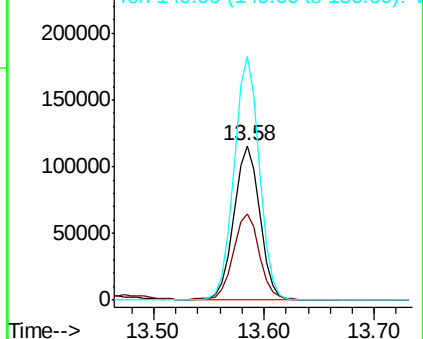


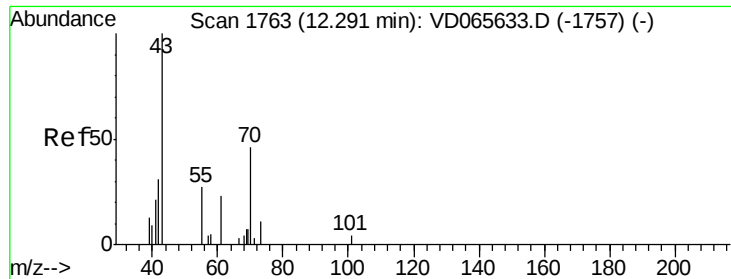
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. -0.00 min
Lab File: VD065659.D
Acq: 17 Apr 2020 22:10

Tgt Ion:152 Resp: 192385
Ion Ratio Lower Upper
152 100
115 57.5 27.6 82.7
150 152.6 0.0 346.0



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 3.569 ug/l

RT: 12.27 min Scan# 1760

Delta R.T. -0.02 min

Lab File: VD065659.D

Acq: 17 Apr 2020 22:10

Instrument :

MSVOA_D

ClientSampleId :

TP-19

Tot Ion: 43 Resp: 2187

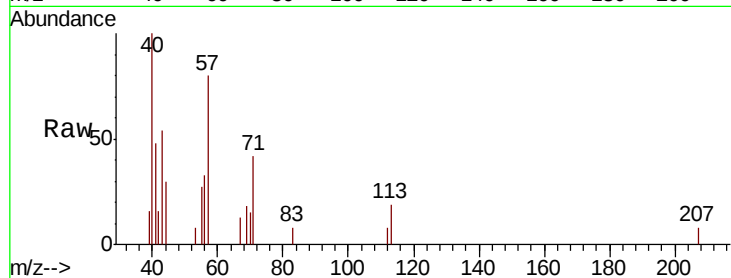
Ion Ratio Lower Upper

43 100

70 20.6 35.4 53.0#

55 0.0 22.2 33.2#

61 0.0 19.3 28.9#

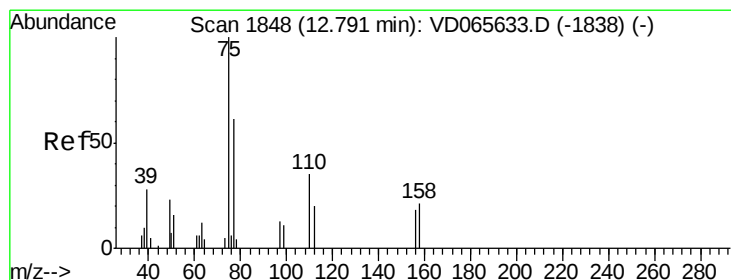
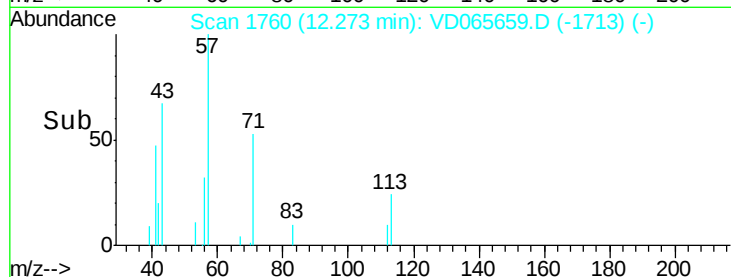
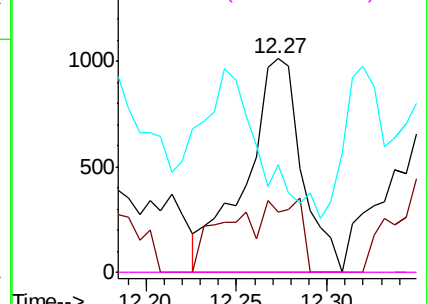


Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 61.00 (60.70 to 61.70): VDC



#76

1,2,3-Trichloropropane

Concen: 51.994 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD065659.D

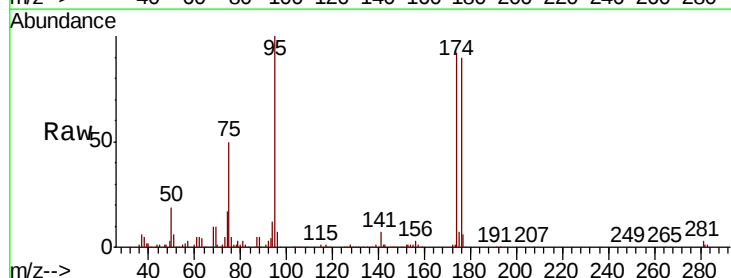
Acq: 17 Apr 2020 22:10

Tgt Ion: 75 Resp: 80426

Ion Ratio Lower Upper

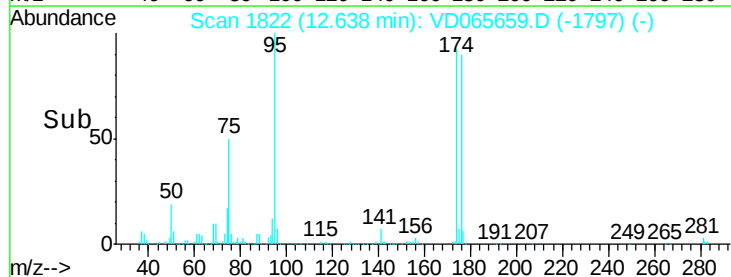
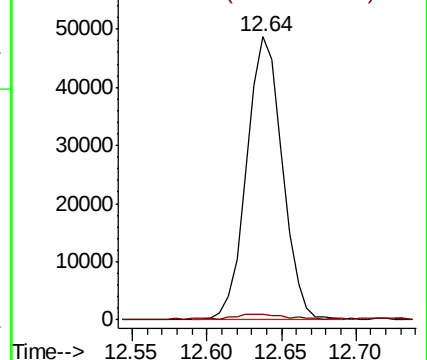
75 100

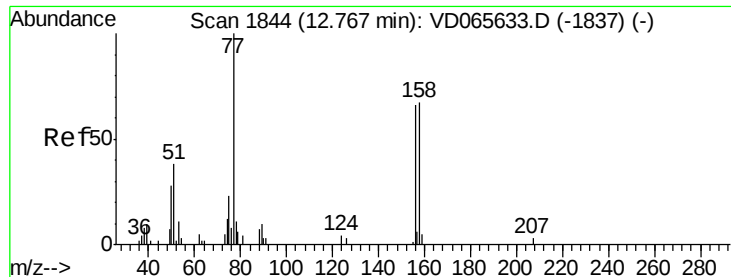
77 2.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC





#77

Bromobenzene

Concen: 5.905 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.13 min

Lab File: VD065659.D

Acq: 17 Apr 2020 22:10

Instrument :

MSVOA_D

ClientSampleId :

TP-19

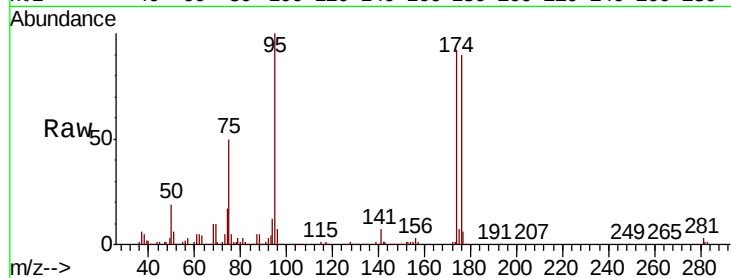
Tot Ion:156 Resp: 18195

Ion Ratio Lower Upper

156 100

77 10.9 84.7 254.1#

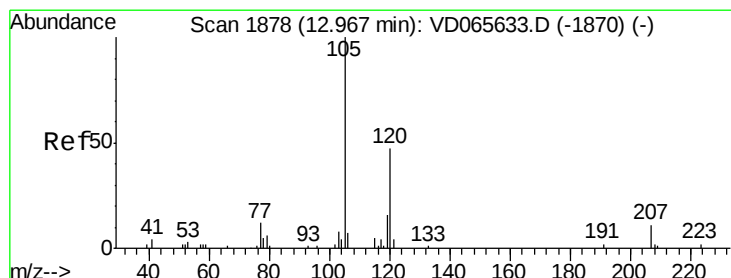
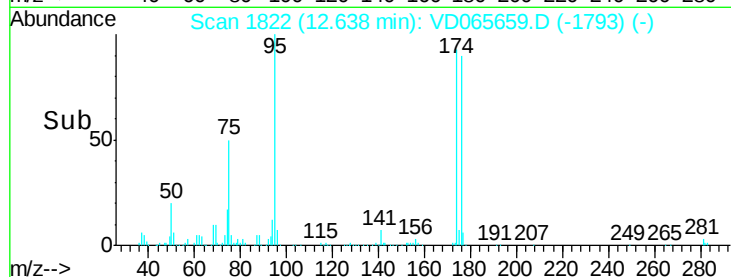
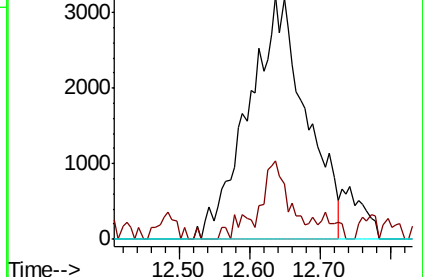
158 0.0 48.5 145.5#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): V

Ion 157.80 (157.50 to 158.50): V



#80

1,3,5-Trimethylbenzene

Concen: 1.599 ug/l

RT: 12.97 min Scan# 1878

Delta R.T. -0.00 min

Lab File: VD065659.D

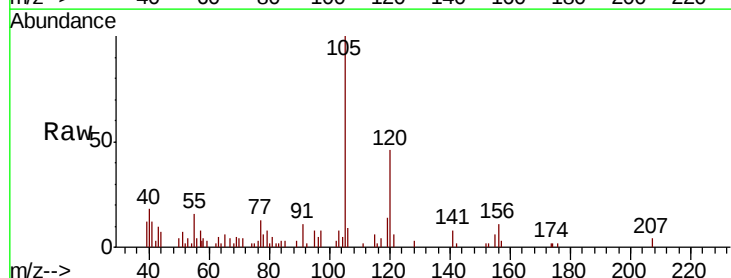
Acq: 17 Apr 2020 22:10

Tgt Ion:105 Resp: 15659

Ion Ratio Lower Upper

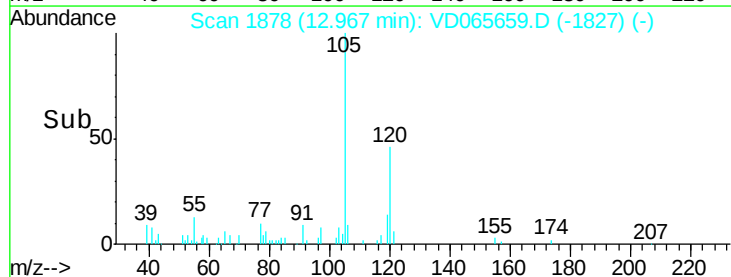
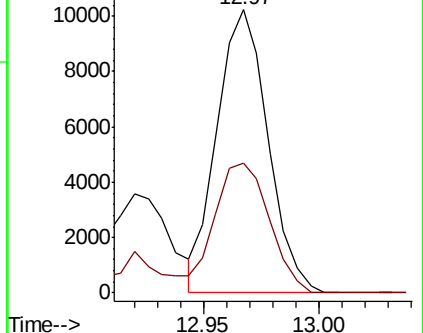
105 100

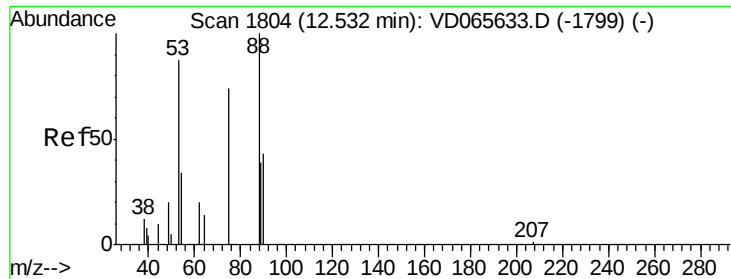
120 50.2 25.2 75.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 113.951 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.10 min

Lab File: VD065659.D

Acq: 17 Apr 2020 22:10

Instrument :

MSVOA_D

ClientSampleId :

TP-19

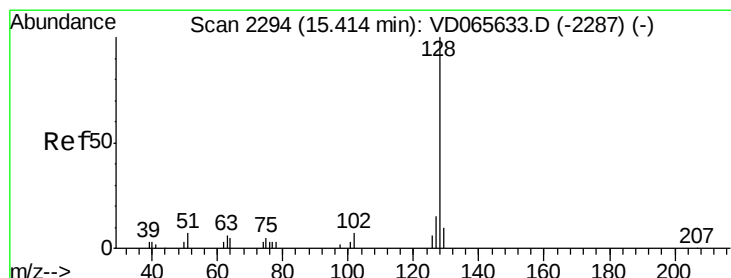
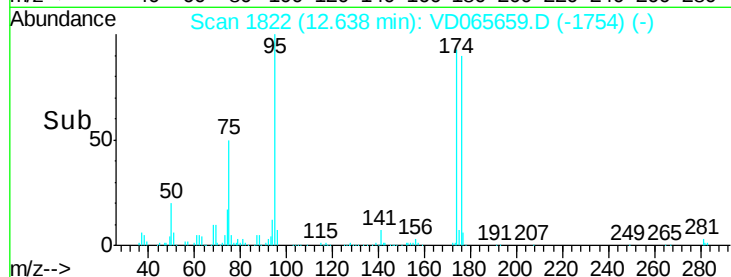
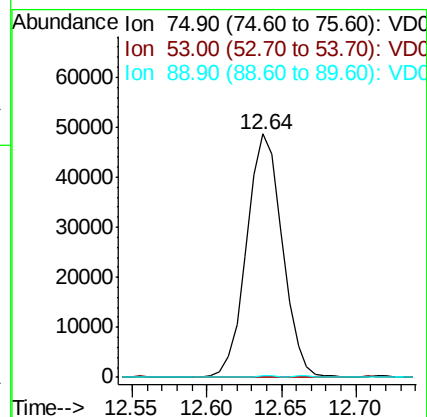
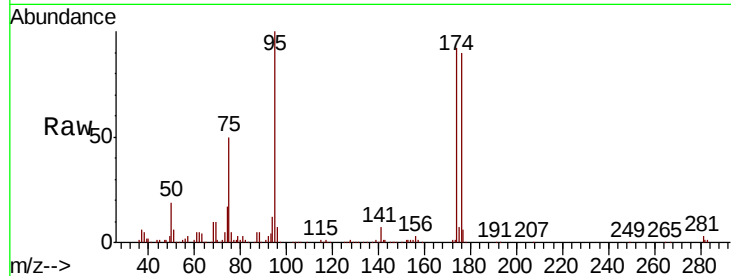
Tot Ion: 75 Resp: 80426

Ion Ratio Lower Upper

75 100

53 0.2 76.8 115.2#

89 0.3 36.1 54.1#



#95

Naphthalene

Concen: 5.735 ug/l

RT: 15.41 min Scan# 2294

Delta R.T. -0.00 min

Lab File: VD065659.D

Acq: 17 Apr 2020 22:10

Tgt Ion: 128 Resp: 10828

Ion Ratio Lower Upper

128 100

127 15.8 10.6 16.0

129 15.5 8.8 13.2#

